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Chemical Use Standard Encoding System (ChemUSES) Volume II. Function List and Function List Index

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The Chemical Use Standard Encoding System (ChemUSES) provides a standard format and nomenclature for use in collecting and exchanging information about chemical uses. ChemUSES is a system for describing a chemical use by the function the chemical serves and the setting or application in which it serves that function. ChemUSES is composed of two lists of terms: The Function List and the Application List. Terms from these lists are selected to describe functions and applications. A use is defined when both the function and application are specified. ~~(ChemUSES also includes user instructions and user aids.)~~ This volume contains the Function List and the Function List index.

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Chemical Use Standard Encoding System (ChemUSES)

Volume 2
Function List and Function List Index

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CHEMICAL USE STANDARD ENCODING SYSTEM (ChemUSES)

Volume II — Function List and Function List Index

Final Report

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I FUNCTION LIST

1 Antifouling agents (surface coating technology)
Substances used in marine paints to inhibit growth of barnacles and other organisms.

2 Ion exchange agents
Substances used for the reversible interchange of ions (or sometimes inorganic complexes) with an aqueous phase (e.g., zeolites, ion exchange resins, or liquid ion exchangers).

3 Polymer strippers
Substances used to remove polymeric coating materials from surfaces (e.g., photoresists from printed circuit boards).

4 Antifelting agents (textile technology)
Substances applied to textile fibers to prevent their "felting" or forming a mat during processing.

5 Bloom agents (fluorescence enhancement)
Substances added to materials (e.g., petroleum products, varnish, and rosin oil) to enhance fluorescence.

6 Blasting abrasives
Substances entrained in a high velocity stream used to clean, cut, or finish surfaces.

7 Soil retardants (textile technology)
Substances applied to textiles to inhibit the attachment of dirt to the fabric.

8 Poison gas decontaminants
Substances used to remove or decompose poison gas.

9 Rinse aids
Substances added to a wash bath to remove traces of materials such as soap, contaminants, and residues (e.g., as used in automatic dishwashers).

10 Sequestering agents
Substances that combine in an aqueous solution with metallic ions to form a water soluble combination in which the ions are substantially inactive.

11 Rust removers
Substances used to remove oxidized iron (rust) from the surface of metals.

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12 Antifume agents (textile technology)
Substances that prevent deterioration of textiles by atmospheric fumes, particularly those caused by combustion or those with an acid character.

13 Tarnish removers
Substances that remove the discoloration of a metal surface due to the formation of a thin film of oxide, sulfide, etc.

14 Soaping-off assistants (textile technology)
Substances used to facilitate the removal of unattached dye, dye assistants, or soap after dyeing.

15 Viscosity index improvers
Substances used in lubricating and automotive oils to reduce the effect of temperature on their viscosity.

16 Reaction media
Substances that act as vehicles for chemical reactions and that do not enter into the reaction themselves.

17 Papermaking agents
A general term for substances used in paper manufacture.

18 Currying agents (leather technology)
Substances that promote the loading (or penetration) of leather with oils or greases.

19 Catalyst supports
Inert substances used to support a catalyst in a reaction system.

20 Fluorescent agents
Substances, such as optical brighteners, that emit visible light as a direct consequence of the absorption of shorter wave length radiation such as ultraviolet light. The emission of radiation ceases when the stimulating radiation is discontinued.

21 Prevulcanization inhibitors (rubber technology)
Substances that prevent scorch and premature vulcanization of rubber prior to reaching vulcanization temperatures.

22 Fluxing agents
Substances used to remove oxides from and to clean the surfaces of metals, or to promote the fusion of metals or minerals.

23 Waterproofing agents
Substances used to make materials impervious to penetration by water.

24 Nucleating agents
Substances that induce mixtures such as liquids, supersaturated solutions, saturated vapors, and polymers to form crystals or droplets, or that modify crystal grain structure, as in metals.

25 Fire extinguishing agents
Substances that, when applied to a fire, will smother it.

26 Dust control agents
Substances used to control finely divided solid particles of powdered or ground materials to reduce their discharge into the air.

27 Incendiaries
Substances that ignite spontaneously upon impact, bursting, or contact.

28 Elasticizers
Substances that make a product more elastic (e.g., an additive that contributes elasticity to a resin).

29 Softeners
Substances used for softening materials (e.g., textiles, paper, gums) to improve feel, to facilitate finishing processes, or to impart flexibility or workability.

30 Depolymerization agents
Substances used to reduce a polymer's degree of polymerization.

31 Chain extenders (polymer technology)
Substances that, in effect, increase the length of a molecular chain by suppressing chain terminating reactions.

32 Fume suppressants (electroplating)
Substances used to suppress the formation of fumes resulting from electroplating operations.

33 Latex compounding agents
A general category for substances used in compounding latexes.

34 Fertilizers
Substances added to soil to supply chemical elements needed for plant nutrition.

35 Well treating agents (petroleum production)
A general term for substances used in the production of oil or gas from underground reservoirs or producing wells.

36 Ultraviolet absorbers
Substances added to materials (such as plastics and paints) to protect against the degradative effects of ultraviolet radiation.

37 Metal treating agents
A general term for substances used to treat metal or in metal working.

38 Drainage aids (paper technology)
Substances that cause a more rapid removal of water from pulp in papermaking.

39 Dye stripping agents
Substances used to remove dyes from fabrics so that they can be redyed.

40 Tar removers
Substances used to remove tar from a material.

41 Antifloating agents
Substances with surface active properties that wet floating or suspended particles, allowing them to disperse or precipitate.

42 Sealants
Substances used as coatings or void or joint fillers, primarily to stop passage of matter (e.g., leakage).

43 Prepolymers (polymer technology)
Polymeric substances of relatively low molecular weight that can be mixed with additives and hardened by further polymerization during or after a forming or coating process.

44 Drilling mud additives (petroleum production)
A general term for substances added to drilling muds to increase the density, reduce viscosity, counteract contaminants, reduce filtrate loss, stabilize shale and clay, and emulsify components of the mud.

45 Radioactivity decontaminants
Substances used to remove radioactive substances from surfaces, liquids, gases, or the environment.

46 Activators (chemical processes)
Substances that render a material or a system reactive (e.g., catalysts for polymerization or metallic oxides for vulcanization reactions).

47 Air entraining agents
Substances, such as natural wood resins, fats, sulfonated compounds, and oils, that promote air entrapment in materials (e.g., in concrete).

48 Anticreasing agents (textile technology)
Substances that impart wrinkle resistance to a fabric.

49 Descaling agents (metals)
Substances that remove scale (e.g., coatings or crusts of oxides) from the surface of metals in reducing, oxidizing, or electrolytic processes.

50 Physical blowing agents (polymer technology)
Compressed gases that expand when pressure is reduced, liquids that vaporize or soluble solids that leach out to form a foam or cellular structure (e.g., in a plastic or rubber mass).

51 Scavengers
Substances added to a process or product to consume, neutralize, or inactivate small amounts of by-products, degradation products, impurities, etc.

52 Deodorants
Substances used to remove, repress, or suppress the formation of undesirable odors.

53 Leaching agents
Substances that dissolve and separate a solid from a mixture with an insoluble solid.

54 Stabilizers
A general term for substances used as ingredients in formulated products to maintain desired physical and chemical properties.

55 Phosphatizing agents (metals)
Substances, used in metal treating, that react with a substrate metal to form a protective insoluble coat of metal phosphate (e.g., to protect a metal surface before applying paint).

56 Flatting agents (surface coatings)
Substances added to paints, varnishes, or other coatings to disperse incident light rays, thus reducing the gloss of the dried film and producing a matte finish.

57 Enhanced oil recovery agents (petroleum production)
A general term for substances that facilitate the recovery of petroleum from wells, as in secondary or tertiary recovery.

58 Weighting agents (textile technology)
Substances added to yarn or fabric to increase their weight or to act as a filling agent.

59 Pickling agents (metal technology)
Substances, usually acids, used to remove oxides from metal surfaces by an immersion process.

60 Adsorbents
Substances that hold or concentrate the atoms, ions, or molecules of liquids, gases, or dissolved substances upon their surfaces.

61 Strippers
A general term for substances used to remove unwanted materials (e.g., coatings) from surfaces.

62 Optical quenchers
Substances used to neutralize the effect of optical brighteners.

63 Antiblocking agents (polymer technology)
Substances added to polymer formulations to reduce adhesion of the surfaces of derived products to each other or to other materials (e.g., through a slight roughening of that surface).

64 Antiscaling agents (metals)
Substances that prevent scale, a thin layer of metal oxides, from forming on metal surfaces.

65 Hydraulic fluids
Noncorrosive fluids of low viscosity used to transmit force.

66 Feed additives (animal nutrition)
Substances (e.g., amino acids or minerals) added to animal feed to improve nutrition and health.

67 Mar proofing agents (surface coatings)
Substances that, when added to coatings compositions, increase the ability of the coating to resist mechanical damage.

68 Antisettling agents
Substances added to formulations (e.g., paints, adhesives, plastic emulsions) to preserve the dispersed state of the formulation.

69 Indicators
A general term for substances that aid in the detection or determination of condition or composition of other substances, usually by visual means.

70 Bluing agents
Substances that whiten substrates by masking the yellow cast.

71 Ripening agents (crops)
Substances that promote full development or maturation of fruits and vegetables.

72 Coolants
Fluids that, usually without undergoing a phase change, are used to remove heat from materials or exothermic reactions.

73 Dehydrating agents
Substances used to remove chemically bound or otherwise associated water from a substance by chemical, catalytic, or other means.

74 Deicers
Substances used to remove ice from, or prevent its accumulation on, a surface or in a liquid (e.g., preventing ice formation in fuel lines or carburetors).

75 Pitch control agents (wood pulping)
Substances that prevent the agglomeration of resin particles in wood pulping operations.

76 Antiknock agents (fuels)
Substances added to fuels to prevent premature ignition in internal combustion engines.

77 Antifreezes
Substances added to liquids to lower the freezing point.

78 Pre-spotting agents (drycleaning and laundering)
Substances used prior to drycleaning or laundering of textiles to loosen or dissolve soil.

79 Flavors and fragrances
Substances used to impart desired flavor and aroma characteristics to foods, cosmetics, confections, tobacco, pharmaceuticals, etc.

80 Sweeteners (taste)
Substances used to impart a sweet taste to food or other products that are ingested or used in the mouth.

81 Deaerating agents
Substances used to remove dissolved or entrained gases, (e.g., the use of nitrogen to purge oxygen from solutions).

82 Dewaxing solvents (petroleum technology)
Substances used during petroleum refining processes to remove petroleum wax from refinery streams, especially to separate waxes from oils.

83 Stains (microscopy)
Substances used to impart color to preparations for microscopic examination.

84 Delignification agents (wood pulping)
Substances that solubilize lignin in wood and facilitate the separation of cellulosic materials.

85 Dechlorinating agents
Substances used to remove residual or free chlorine or hypochlorite from materials (i.e. from textiles, wood pulp, water supplies, stack gases).

86 Coloring agents
A general term for substances that produce color by selectively absorbing or reflecting light.

87 Heat stabilizers
Substances that prevent or retard the degradation of a material by heat.

88 Bloom inhibitors (surface coatings)
Substances that prevent the migration of an ingredient of a mixture to the surface.

89 Electroconductive coating agents
Coating substances that render otherwise nonconductive films electroconductive.

90 Anticratering agents (surface coatings)
Substances that, when added to paint or coating formulations, prevent formation of small bowl-shaped depressions ("fish eyes" or "alligatoring") in the dried film.

91 Lachrymators
Substances that irritate the eyes, causing tearing.

92 Spreaders (plant applications)
Substances used to promote the uniform coating and adhesion of agricultural chemicals (except fertilizers) onto plant surfaces.

93 Chemical raw materials
A general term for chemical substances used as starting materials for chemical reactions.

94 Frothers
Substances that, when added to an agitated or aerated liquid, will promote the formation and stability of a foam or froth.

95 Metal strippers
Substances used to remove plated metals from a base metal (e.g., gold plating from copper).

96 Peptizing agents (colloids)
Substances that promote colloid dispersion and stabilize hydrophobic colloid solutions (e.g., electrolytes that provide ions that are adsorbed on the particle surfaces).

97 Decontaminants
A general term for substances used to remove or destroy hazardous materials or germs.

98 Sizes
Substances applied to substrates such as fabric, yarn, paper products, or plaster to increase abrasive resistance, stiffness, strength, smoothness, or reduce absorption.

99 Antifogging agents (imaging systems)
Substances used in image forming systems to reduce the formation of "non-image" density.

100 Electron emission agents
Substances applied to solids (e.g., electrodes) to promote the emission of electrons.

101 Brazing agents (metals)
Substances used in the irreversible joining of metals by a nonferrous alloy at high temperatures.

102 Delustrants (textile technology)
Substances used to reduce or eliminate the gloss or sheen on textile fibers, yarns, and fabrics.

103 Initiators (chemical technology)
Substances that cause chemical reactions to start and are themselves chemically changed (e.g., organic peroxides used in polymerization reactions).

104 Abherents
A general term for substances that reduce or prevent adhesion between two surfaces.

105 Abrasives
A general term for substances used for grinding, cleaning, cutting, polishing, or wearing down the surfaces of a solid substance.

106 Protective agents (textile processing)
Substances used to protect wool and silk during wet processing.

107 Deionizers
Substances used to purify water by removal of both anions and cations.

108 Biocides
A general term for substances used to destroy or control unwanted microorganisms such as fungi, bacteria, and algae.

109 Surfactants
A general term for substances used to lower the surface and/or interfacial tension of liquids and promote cleaning, wetting, dispersion, etc.

110 Adhesion promoters
Substances used to modify the properties of surfaces to improve their bonding characteristics.

111 Pore forming agents
Organic substances added to a pasty mass of inorganic substances that, upon combustion, will leave a porous structure.

112 Fixing agents (textile technology)
Substances that react with a dye on a fiber to improve fastness (e.g., diazonium compounds used for aftertreatment of direct dyeings).

113 Chain terminators (polymer technology)
Substances that react with the end of a growing polymer chain, stopping growth.

114 Coagulants
Substances that induce the aggregation of semisolid particles into coherent clots, curds, or masses (e.g., precipitation of casein from milk).

115 Monomers (polymer technology)
Simple, low molecular weight substances possessing a structure that is capable of reacting with itself or with other reactive chemicals to form a polymer.

116 Slime preventatives (paper technology)
Substances used to control microorganisms occurring in pulpwood.

117 Fulling agents (textile technology)
Substances used to promote the compacting or shrinking of woolens in the fulling process.

118 Preservatives
A general term for substances used to protect products from degradation by decay, discoloration, spoilage, insect attack, oxidation, etc.

119 Antiseize agents (lubricants)
Substances added to lubricants to inhibit seizing of a metal part as it moves against a metal surface.

120 Antilivering agents (surface coatings)
Substances that inhibit the solidification of paints, lacquers, and varnishes during aging.

121 Polymerization additives
A general category for chemicals used to effect or to control polymerization processes.

122 Chelating agents
Substances that combine by coordinate bonding with a central atom (usually metal) to form one or more cyclic structures.

123 Coupling agents (polymers)
Substances that strengthen the bond between the reinforcement and the resin matrix of a composite material.

124 Complexing agents
A general term for substances that combine with other chemicals, usually reversibly and by coordinate bonding, to form complex compositions (e.g., coordination compounds, inclusion complexes, and double salts).

125 Pigments
Substances, usually insoluble and finely dispersed, most commonly used for optical effects (e.g., coloring, whitening, opacifying).

126 Slime control agents (ore processing)
Substances used in ore flotation to prevent small particles of the desired mineral ("fines") from adhering to the bulk gangue (or waste) material.

127 Swelling agents
Substances added to a material that cause it to increase in volume and become softer (e.g., a low molecular weight liquid absorbed by rubber).

128 Opacifiers
Substances used in products to make them nontransparent; they may also enhance luster, control texture, stabilize color, or promote craze resistance.

129 Antihydrolysis agents (polymer technology)
Substances added to polymeric materials (e.g., rubber, polyurethane, fibers) to prevent breakdown of the polymeric chain by hydrolysis.

130 Coating agents
Substances that form a continuous film over a substrate.

131 Absorbents
Substances that assimilate a gas or liquid by various means, such as capillary, osmotic, solvent, or chemical reaction.

132 Bleaching agents
Substances that whiten or decolorize materials by oxidation or reduction.

133 Chemical blowing agents (polymer technology)
Substances that decompose when heated, evolving a gas that forms a foam or cellular structure (e.g., in a plastic or rubber mass).

134 Fixing agents (fragrances)
Substances that reduce the volatility of fragrances in perfumes.

135 Viscosity adjustors
Substances that, when added to another substance or mixture, will modify its flow characteristics.

136 Retarders (chemical processes)
Substances that reduce the rate at which a chemical reaction takes place (e.g., additives for rubber stock to prevent premature cure).

137 Dehairing agents (leather technology)
Substances used to remove hair, epidermis, and certain soluble proteins from hides.

138 Sweeteners (petroleum technology)
Substances used in natural gas processing or petroleum refinery processes to remove sulfide-containing chemicals and to improve the odor of the product.

139 Pearlizing agents
Substances that impart a shiny, opalescent appearance to materials such as plastics and paints.

140 Disinfectants
Substances used nonmedicinally to destroy or inhibit microorganisms.

141 Chain transfer agents (polymer technology)
Substances that terminate the growth of a molecular chain and form a new radical that can act as the initiator for a new chain.

142 Fluid loss additives (petroleum production)
Substances, often a component of drilling muds or fluids, that prevent loss of fluid into the rock formation during petroleum drilling.

143 Binders
Cohesive substances (such as resins or cements) used to hold particulate or fibrous materials together or to provide adhesion of such materials to a surface.

144 Parting agents (molding)
Substances, usually applied to a mold, that reduce adhesion between the mold and the molded piece, facilitating its removal from the mold.

145 Food additives
A general term for substances added to foods to improve potability, nutrition, preservation, or convenience.

146 Inorganic intermediates
Inorganic chemicals that are formed and can be isolated at an intermediate step between starting material and the final product in a sequence of chemical processes.

147 Water softeners
A general term for substances that remove or inactivate water hardness minerals, principally calcium and magnesium.

148 Internal lubricating agents
Substances added to polymers prior to processing to reduce friction, improve flow characteristics, or improve wetting properties.

149 Oxidizers
Substances that give up oxygen easily, remove hydrogen from other compounds, or accept electrons in chemical reactions.

150 Dye carriers
Substances that increase dye penetration into textile products during processing.

151 Precipitating agents
Substances that cause solids to settle from solution or suspension, usually by chemical action.

152 Antiflooding agents (surface coatings)
Substances that prevent the concentration of pigments at the surface of a paint film.

153 Refining agents (non-petroleum)
A general term for substances used to remove impurities during purification processes.

154 Resists (imaging systems)
Substances applied as a protective layer to selected areas of a surface to retard or prevent printing, dyeing, or etching of those areas of the surface.

155 Insect attractants
Substances that are used to attract insects.

156 Leather processing agents
A general term for substances used in the conversion of skins to leather or in posttanning treatments of leather.

157 Enzymes
Proteins that accelerate or catalyze the chemical processes converting substrate to product(e.g., enzymes that convert starch to ethyl alcohol).

158 Explosives
Substances or mixtures that are characterized by chemical stability but that may be made to undergo rapid chemical change without an outside source of oxygen, rapidly producing a large quantity of energy accompanied by bursting or expansion.

159 Emulsifiers
Substances that promote the formation and stability of a suspension of fine particles of a liquid in another liquid.

160 Antisagging agents (surface coatings)
Substances added to paints and coatings to prevent the downward movement of a paint film between application and setting.

161 Electrical conductive agents
Substances that will conduct electricity.

162 Insulating materials
A general term for substances that poorly conduct various forms of energy (e.g., heat, electricity), thereby acting as a barrier to its transmission.

163 Activators (ore processing)
Substances added to minerals that have been depressed in a flotation step to increase their susceptibility to subsequent flotation.

164 Carriers (chemical processing)
Substances (e.g., an inert gas diluent) that carry another material through a chemical reaction.

165 Stickers
Substances that enable applied substances, such as pesticides, to stick or remain on plant surfaces.

166 Animal repellents
Substances that drive animals away from the area of application.

167 Cosmetic ingredients
A general term for substances used as components in cosmetic and toiletry formulations.

168 Antiozonants
Substances used to retard or prevent deterioration caused by ozone.

169 Plating agents
Substances used as the source for a layer of metal deposited on another surface, or that aid in such deposition.

170 Catalysts
Substances that alter the rate of a chemical reaction but are in their original state at the completion of the reaction.

171 Kier boiling assistants (textile technology)
Substances used to aid the removal of natural fats and other impurities from cotton or flax materials.

172 Laundry sours
Substances used in laundry or textile operations to neutralize residual alkalinity or decompose residual hypochlorite.

173 Detergents
Surfactants other than soap used as cleaning agents or as components of formulated cleaning products.

174 Coupling agents (dyes)
Substances that react with chemicals, such as diazo compounds, to produce dyes.

175 Wet strength additives (paper technology)
Substances used to increase the strength of wet paper and paperboard products.

176 Plastics additives
A general term for substances added to protect plastics or to modify their properties for processing or use.

177 Antiprecipitants
Substances used to prevent precipitation of inorganic ions or compounds by inhibiting crystal formation, dispersing finely divided particulate matter, or combining with them by forming complexes.

178 Aerosol propellents
Compressed or liquified gases within which substances are dissolved or suspended and expelled from a container upon discharge of the internal pressure through the valve of the container and expansion of the gas.

179 Detonators
Substances that initiate explosives and are activated by such means as flame, spark, or friction (e.g., explosives in blasting caps).

180 Boil-off assistants (textile technology)
Substances that aid in removing soil, which results from processing, from textile products during scouring or boiling.

181 Impact modifiers (polymer technology)
Substances added to polymeric materials to increase their resistance to impact.

182 Developers (image formation)
Substances used to make visible an exposed, latent photographic image.

183 Deposit modifiers (fuels)
Substances that change the amount or character of deposits in combustion chambers.

184 Grinding, lapping, sanding and polishing abrasives
Granular substances that may be attached to substrates such as cloth, paper, plastics, wood, and iron, bonded into a three-dimensional object or applied in a loose, granular, or powdered form to grind, clean, polish, or wear down metal, glass, wood, plastics, stone, or other materials.

185 Plasticizers (polymer technology)
Substances that impart flexibility or workability to a polymer.

186 Encapsulating agents
Substances used to surround or encase solid or liquid matter to isolate it.

187 Rubber for shaping
Elastomeric substances capable of being shaped by a forming process such as molding, dipping, or casting.

188 Anticaking agents
Substances that prevent granular or particulate materials from sticking or caking during transfer, storage, or use.

189 Rubbing fastness agents (textile technology)
Substances added to textiles to improve their resistance to abrasion.

190 Flocculating agents
Substances that induce the aggregation of suspended solid particles into small clumps or tufts (e.g., aggregation of ore particles during flotation processes).

191 pH indicators
Substances used for visual detection of acidity or basicity of solutions.

192 Hormones
Substances produced in animals or plants that regulate the activity of certain organs or control processes in other parts of the plant.

193 Greaseproofing agents
Oil repellent substances applied to a substrate (e.g., paper) to prevent penetration of the surface by oil or grease.

194 Antiwebbing agents (latex technology)
Substances added to latex formulations used for dipping operations that prevent the formation of thin free-standing sheets when the form is removed from the latex.

195 Lubricant additives
A general term for substances added to lubricants to improve their properties, such as stability, lubricity, or detergency.

196 Activators (luminescence)
Substances, added as impurities to phosphors, that cause or enhance absorption of electromagnetic radiation, resulting in emission at a longer wave length, usually visible.

197 Oil repellents
Substances applied to substrates such as textiles to prevent oil wetting.

198 Desensitizers (explosives)
Substances that reduce the sensitivity of an explosive to heat or impact.

199 Heat transfer agents
A general term for substances used to transmit heat to or remove heat from another material, either directly or indirectly.

200 Denaturants
Substances used to deprive substances of their natural properties (e.g., to render ethyl alcohol unfit for human consumption or to modify properties of proteins).

201 Rubber reclaiming agents
A general term for substances used to prepare rubber for reuse.

202 Semiconductors (electronics technology)
Substances having resistivities that are between those of insulators and metals, and are usually changeable by light, heat or electrical or magnetic field.

203 Phosphorescent agents
Substances that continue to emit light after removal of a visible light or other exciting source.

204 Ablatives
Substances that are applied to a substrate (e.g., metal) to protect it from heat by dissipating the heat through the process of erosion, melting, or vaporization of the material.

205 Dewatering aids
Substances used (e.g., in mining) that reduce the moisture content of filter cake.

206 Antistaining agents
Substances used in a manufacturing or processing step to impart stain resistance to or eliminate staining of the finished product.

207 Fiber-forming compounds
Substances that are capable of being spun or extruded to make a fiber (e.g., polyester resins, glass).

208 Refrigerants
Substances that are used for chilling or maintaining a low temperature, usually by evaporation in a closed loop, requiring compression for liquefaction.

209 Polymerization inhibitors
Substances that stop or retard polymerization.

210 Hydrotropic agents
Substances used in aqueous media to increase the solubility of sparingly soluble substances (e.g., surfactants).

211 Dye retention aids
Substances added to a dye bath to ensure that the dye is retained on the fabric.

212 Fillers (patching)
Substances used to fill holes or indentations in wood, plaster, roads, or other surfaces, usually before applying a coating such as paint or varnish.

213 Dehumidifiers
Substances used to remove water vapor from gases such as air, (e.g., by absorption or hydrate formation).

214 Acidulants (foods and beverages)
Acids used in foods or beverages to impart or enhance taste, prevent browning, aid in controlling microorganisms, etc.

215 Culture nutrients
Substances that provide food or energy for the cultured growth of microorganisms.

216 Quenchers (metallurgy)
Substances used for the rapid cooling of steel from elevated temperatures, generally by immersion in a liquid.

217 Pickling inhibitors (metal treating)
Substances added to materials used as acid pickling agents to retard or prevent the chemical action of the acid on the base metal.

218 Antipilling agents (textile technology)
Substances added to textiles during processing or finishing that reduce the tendency of the fibers to "ball up" (pill).

219 Refractive index modifiers
Substances used to change the refractive index of other materials.

220 Bright dips (metal treating)
Substances in which metals are immersed and may be anodized to produce a bright clean surface by making use of the solution potential of the metal surface in a liquid bath (usually for brightening aluminum, brass, or stainless steel surfaces).

221 Gelling agents
Substances that cause liquids to setup into jelly-like semisolids.

222 Carbonizing agents (textile technology)
Substances that promote the destruction of cellulosic materials during the processing of wool.

223 Repulping aids (paper technology)
Substances that facilitate the mechanical disintegration of reclaimed paper to form a pulp.

224 Plastics for shaping
Polymeric substances that can be shaped by a forming process, such as molding, extruding, or drawing.

225 Toners (coloring)
Organic pigments that have no inorganic base and are used normally in an organic vehicle.

226 Curing agents (concrete)
Substances used to control the rate of cure of mortar or concrete.

227 Mordants (textile technology)
Substances, usually a metallic salt or an acid, that fix a dye in or on a substance (e.g., a textile fiber) by combining with the dye to form an insoluble component.

228 Crosslinking agents (polymer technology)
Substances that promote or regulate the formation of structural links between polymer chains or between polymer molecules and other substances.

229 Degreasers
Substances used to remove grease, usually by solvent action or emulsification.

230 Antioxidants
Substances that check or retard reactions caused by oxygen or peroxides.

231 Devulcanizing agents (rubber technology)
Substances used to soften rubber during a reclaiming process by reducing the degree of crosslinking.

232 Demulsifiers
Substances used to destroy (break) an emulsion or to prevent its formation.

233 Dusting agents (rubber technology)
Substances that are dusted on the surface of rubber objects to reduce their surface tack.

234 Antifogging agents (moisture condensation)
Substances used to prevent the condensation of small droplets of moisture on glass or other material, by lowering the surface tension and causing the water to spread in a continuous phase.

235 Mercerizing assistants (textile technology)
Substances used in the treatment of cellulosic yarns or fabrics with alkali for improving luster and dye receptivity.

236 Deasphalting agents
Substances used to remove traces of asphalt from petroleum streams during petroleum processing.

237 Obscuring agents (chemical smokes)
Substances that form a smoke screen and restrict visibility upon dispersal.

238 Analytical and product testing agents
Substances used in the analysis or quality control testing of materials (e.g., chemicals, metals, and biological materials).

239 Activators (enzymes)
Substances added to stimulate the production of enzymes from proenzymes (e.g., amylase from barley).

240 Turbulence suppressors
Substances that reduce friction head losses (i.e., drag) in fluids in motion and between a fluid and a conduit surface.

241 Refractories

Substances, usually nonmetallic, that can withstand the high temperatures or action of corrosive solids, liquids, or gases at high temperatures.

242 Cleaners

A general term for substances that remove soil or impurities from a surface.

243 Wetting agents

Surfactants that, when added to water, cause it to penetrate more easily into, or to spread over the surface of, another material by reducing the surface tension of water.

244 Reducers (chemical technology)

Substances that remove oxygen, that hydrogenate, or, in general, that act as electron donors in a chemical reaction.

245 Electrolytes

Substances that can provide ionic conductivity when fused or in solution.

246 Humidity indicators

Substances that undergo changes in observable properties to indicate changes in water vapor pressure (humidity).

247 Fuels

Substances that evolve energy in a controlled combustion reaction.

248 Lakes (coloring)

Insoluble colorants produced by the reaction of a dye with a mordant (metallic compound).

249 Penetrants

Substances used to increase the speed and ease of permeation of a solid by a liquid.

250 Reinforcing agents

Substances (usually inert, fibrous materials) used to improve physical properties, such as tensile strength, hardness, abrasion resistance, and tear resistance of materials such as rubber and plastics.

251 Plant growth regulators

Substances, not indigenous to plants, that control the rate of growth or maturation of plants, especially fruits and vegetables.

252 Nematocides
Substances that destroy or control nematodes and are usually applied to the soil.

253 Pesticides
A general term for substances used to kill or control pests, such as insects, weeds, plant pathogens, rodents, etc.

254 Acoustical insulating materials
Substances that conduct sound poorly, thus impeding the transmission and reflection of sound.

255 Dye leveling agents
Substances used to promote the even dyeing of textiles or paper.

256 Transmission fluids
Noncorrosive fluids used as a fluid coupling to transmit power between an engine or motor drive and driven equipment.

257 Vat printing assistants (textile technology)
Substances used to carry the dye in vat dye printing of fabrics.

258 Water repellents
Substances used to treat various substrates (e.g., textiles, leather or paper) to make them resistant to wetting by water.

259 Dispersants
Substances added to a suspending medium to promote and stabilize the uniform dispersion of extremely fine solid particles, often of colloidal size.

260 Cloud point depressants
Substances that depress the temperature at which solids begin to separate from a liquid, such as paraffin wax separating from a solution of petroleum oil.

261 Shrinkage controllers (textile technology)
Substances added to textiles to reduce contraction resulting from washing or laundering.

262 Pour point depressants (lubricants)
Substances, added to lubricating oils, that reduce the temperature at which the oils will flow.

263 Scrooping agents (textile technology)
Substances that impart a stiff or harsh feel to textiles, particularly silk.

264 Rodenticides
Substances used to kill rodents.

265 Emollients
Substances used to make skin soft or supple (e.g., in hand soaps).

266 pH control agents
Substances used to change or maintain acidity or basicity.

267 Dyes
Substances, usually soluble or dispersible, that add a color to materials by impregnation of or by absorption into the material.

268 Barrier coating agents
Substances that, when applied to a permeable surface, prevent the migration of materials.

269 Bates (leather technology)
Substances used in the leather industry to remove dehairing chemicals from skins and to make them flaccid prior to tanning.

270 Fumigants
Substances used in the gaseous phase to inhibit or kill destructive organisms in harvested crops, food products, and other materials, process and transportation equipment, structures, and soil.

271 Solvents
Substances capable of dissolving another substance (solute) to form a uniformly dispersed mixture (solution) at the molecular or ionic level.

272 Thickeners
Substances that form a solid or semisolid dispersion of a fluid lubricant or increase the viscosity of paints, coatings, etc.

273 Wax strippers
Substances used to remove wax from surfaces (e.g., floor polish or wax from linoleum).

274 Scouring agents (textile technology)
Substances used to remove the natural oils and fats and other impurities from raw wool or wool fabrics, to remove lubricants, sizes or tints from textile products, or to clean fabrics before dyeing.

275 Herbicides
Substances used to control or destroy unwanted vegetation such as weeds, grasses, or woody plants.

276 Rust inhibitors
Substances used to prevent the formation of iron oxides on ferrous metals and alloys.

277 Anticracking agents (rubber technology)
Substances added to rubber to prevent cracking (e.g., sun checking) of the finished product.

278 Coalescents
Substances that induce the union of small droplets of a liquid to form larger unit liquid volumes.

279 Textile specialties
A general term for substances used in the processing of natural and synthetic fibers, yarns, and fabrics (e.g., in their formation, bleaching, dyeing, finishing, decoration and modification).

280 Tackifiers
Substances applied to a surface or added to a compound to increase the tack of a deposited adhesive film.

281 Builders (soap and detergent technology)
A general term for substances used with soap or other surfactants to upgrade or protect cleaning efficiency.

282 Antiplasticizers (polymer technology)
Substances added to plastic formulations to prevent softening or an increase in flexibility of the plastic.

283 Collectors (ore processing)
Substances that adsorb on the surface of mineral particles to provide a water repellent film that improves adherence of the mineral to air bubbles.

284 Finishing agents (textile technology)
A general term for substances used to impart specific properties to textiles.

285 Light stabilizers
Substances that inhibit the degradation by light of materials such as dyes and polymers.

286 Intensifiers (photography)
Substances used in photography to increase the density of an image in a film plate or paper.

287 Algicides
Substances used to destroy or control algae.

288 Vulcanizing agents (rubber technology)
Substances used in the vulcanization of rubber to convert rubber hydrocarbon from a thermoplastic to a thermoset.

289 Metal conditioners
Substances used to prepare metal surfaces for coating, electroplating, or passivating a chemically active metal surface.

290 Organic intermediates
Organic chemicals that are formed and can be isolated at an intermediate step between starting material and the final product in a sequence of chemical processes.

291 Anticrock agents (dye technology)
Substances that prevent the color from rubbing off textiles.

292 Desizing agents
Substances used to assist in removal of sizes (e.g., removal of starch from textiles).

293 Antiredeposition agents
Substances used in laundry and drycleaning products to prevent redeposition of soil.

294 Soil release agents
Substances applied to textiles to promote the removal of dirt.

295 Fixatives (photography)
Substances that remove unexposed radiation-sensitive salts from developed photographic film and paper.

296 Retention aids (paper technology)
Substances used to improve the retention of fillers and fibers in the manufacture of paper products.

297 Flotation agents (ore processing)
A general term for substances used in the concentration of ores by flotation processess.

298 Clarifiers
A general term for substances that remove turbidity from solutions by modes other than filtration.

299 Desensitizers (photography)
Substances used in the manufacture of a photographic emulsion that reduce its sensitivity to light or other radiation.

300 Detackifiers
Substances that remove or reduce the adhesive properties of materials.

301 Antiperspirants
Substances used to inhibit secretion of sweat.

302 Adhesives
Substances used, commonly in thin layers, for bonding one surface to another.

303 Sensitizers (photochemistry)
Substances that absorb electromagnetic radiation (e.g., visible light) and transfer energy to other materials, making them susceptible to chemical change (e.g., activation of photographic emulsions).

304 Bleaching assistants
Substances used in a bleach bath to promote penetration by the bleach and improve bleaching action.

305 Soil conditioners
Substances added to topsoil to promote growth by changing characteristics such as soil structure, pH, drainage, or anion exchange capacity.

306 Fuel additives
A general term for substances added to fuels to enhance their combustion properties, stability, etc.

307 Dye retardants
Substances added to a dye bath to slow the rate of dyeing and to prevent rapid exhaustion of the dye.

308 Entraining agents
Additives that form an azeotrope with one component of a liquid mixture to aid in otherwise difficult separations by distillation.

309 Deblooming agents
Substances added to a material, especially petroleum products, to reduce or eliminate fluorescence of the material.

310 Weighting agents (petroleum technology)
Substances that possess high specific gravities and are used to control pressures during petroleum drilling.

311 Electrical insulating materials
Substances that conduct electrical energy poorly, thus acting as a barrier to electrical conduction.

312 Slip agents (plastic technology)
Substances added to plastics that exude to the surface and act as lubricants, thus improving slip characteristics.

313 Functional fluids
A general term for liquids or gases used for one or more operational properties (such as heat transfer, dielectric, hydraulic, lubricant, etc.).

314 Heat insulating materials
Substances that conduct heat poorly, thus acting as a barrier to heat conduction.

315 Crabbing assistants (textile technology)
Substances that assist in the textile finishing process that sets warp and weft threads.

316 Tanning agents (leather technology)
Substances used to treat hides and skins to preserve them and to raise the shrink temperature.

317 Driers
Substances that accelerate or control the drying or hardening of formulations such as paints, varnishes, lacquers, inks, or sealants.

318 Humectants
Hygroscopic substances (e.g., glycerol) used to maintain a desired moisture level in a material.

319 Etching agents
Substances used to solubilize, and thus remove, the surface layer of a material, usually unprotected or reactive areas of metal or glass (e.g., as used in metallography, or in manufacture of printing plates or printed circuits).

320 Paint and varnish removers
Substances used to remove paints or varnishes from surfaces.

321 Accelerators
Substances that increase the rate of a chemical reaction, usually acting in conjunction with a catalyst or curing agent.

322 Dry strength additives (paper technology)
Substances used to improve the strength of paper products.

323 Corrosion inhibitors
Substances used to prevent or retard the gradual destruction of a metal or alloy because of reaction with its environment (such as oxidation, electrolysis, solvent action, or reaction with other chemical agents).

324 Case-hardening agents (metal treating)
Substances used in the manufacture of steel to produce a case-hardened surface by absorbing carbon or nitrogen into the alloy (e.g., from a molten bath (cyaniding) or in contact with ammonia (gas nitriding)).

325 Oxidation-reduction indicators
Substances used for visual detection of the degree of oxidation or reduction in chemical reactions.

326 Solubilizing agents
Substances that promote the dissolution of sparingly soluble substances in a solvent.

327 Milling aids
Substances used to assist in reducing materials to fine particulate matter during grinding.

328 Antistatic agents
Substances used with textiles, plastics, elastomers or other materials to reduce the tendency to accumulate electrostatic charges either by being inherently conductive or by absorbing moisture from air.

329 Antifouling agents (petroleum products)
Substances added to petroleum products to prevent the formation of sludge deposits.

330 Insecticides
Substances used to control insect life harmful to man.

331 Fuel oxidizers
Substances that provide the oxygen necessary for the combustion of fuel when oxygen is not normally present (e.g., in the propulsion systems of space vehicles) or that are used to ensure complete combustion of fuel to prevent smoke formation.

332 Flame retardants
Substances incorporated into or applied to the surface of materials to slow down or to prevent combustion.

333 Bactericides
Substances used to destroy bacteria.

334 Thixotropic agents
Substances that form a colloidal system that exhibits a reversible reduction in viscosity upon mechanical working and that may be used, for example, to prevent running of paints.

335 Coupling agents (solutions)
Substances that facilitate the solution of partially soluble solutes in solvents.

336 Evaporation control agents
Substances added to a liquid to reduce evaporation at the liquid surface.

337 Formation aids (paper technology)
Substances added to paper pulp stock to promote the uniform formation of paper on the Fourdrinier machine.

338 Rubber compounding agents
A general term for substances added to rubber and other elastomeric materials to facilitate processing, enhance their properties, or inhibit deterioration.

339 Odorants
Substances used to impart an odor or to mask an unwanted odor.

340 Eluting agents
Substances used to desorb material from an adsorbent (e.g., removal of minerals from ion exchange agents).

341 Enzyme inhibitors
Substances that inhibit the catalytic activity of enzymes.

342 Defoamers
Substances used to reduce or eliminate frothing or foaming in a treatment or process.

343 Antiskinning agents
Substances added to a liquid to prevent or retard oxidation or polymerization that results in the formation of a "skin" on the liquid's surface, either during storage in a container or on exposure to air.

344 Photosensitive agents
A general term for substances that absorb electromagnetic radiation (e.g., visible light), resulting in emission of light, dissociation, discoloration, or other chemical reaction, or in energy transfer.

345 Tarnish inhibitors
Substances that prevent or retard the discoloration of a metal surface due to the formation of a thin film of oxide, sulfide, etc.

346 Oiliness agents
Substances that retard the gumming of vegetable oils while promoting lubrication.

347 Antistripping agents (asphalt)
Additives used in asphaltic binders to prevent the separation of binder from aggregate.

348 Insect repellents
Substances that drive away insects from the point of application.

349 Water-reducing agents (concrete technology)
Substances added to concrete mixtures to allow a reduction in water-cement ratio at a given workability.

350 Antiskid agents
Substances incorporated into or applied to the surface of a substrate to prevent slippage (e.g., by increasing surface roughage).

351 Fillers (augmentation)
Relatively inert and normally nonfibrous, finely divided substances added to elastomers, plastics, paints, ceramics, etc., usually to extend volume and reduce costs but which may improve desired properties, such as whiteness, lubricity, density, or tensile strength (moderately).

352 Antislip finishing agents (textile technology)
Substances applied to textile fibers or yarns to prevent slippage during weaving.

353 Brighteners (electroplating)
Substances added to an electroplating bath to yield a smoother, brighter, electroplated surface.

354 Aerating agents
Substances that facilitate the impregnation or saturation of a substance (usually a liquid) with air or other gases.

355 Concrete additives
A general term for substances added to concrete mixtures to improve processing characteristics or final properties.

356 Discharge printing agents (textile technology)
Substances capable of destroying a dye or mordant in a fabric to produce a colorless image upon a colored background.

357 Coalescing agents (surface coatings)
Substances added to paints and coatings to promote film formation by temporary plasticization or softening of the vehicle.

358 Blowing agents (polymer technology)
A general term for substances added to other materials to produce a foam or a cellular structure by the evolution or the expansion of gases.

359 Intensifiers (printing)
Substances used in printing to increase the density of the tone, color, or image.

360 Modifiers (ore processing)
A general term for substances that enhance the separation of minerals by causing the particle to accept or reject the collector during ore flotation.

361 Embrittlement inhibitors
Substances that prevent or inhibit the loss of ductility of a metal.

362 Fungicides
Substances used to control or destroy fungi.

363 Explosion inhibitors
Substances used to reduce the explosion potential of flammable materials.

364 Lubricating agents
Substances that reduce the friction developed (and the wear) between adjacent solid surfaces, at least one of which is in motion, such as the moving parts of a machine or piece of equipment, promote the flow of dry materials, as in making plastics, or prevent build-up in grooved compactors.

365 Degumming agents (textile technology)
Substances used to dissolve and remove gum-like substances from natural fibers, (e.g., sericin, a glue-like substance, from silk).

366 De-inkers (paper technology)
Substances used to remove inks, coloring materials, and fillers from paper.

367 Depressants (ore processing)
Substances that assist in the separation of minerals when the floatabilities of the minerals to be separated are quite similar for any given promoter.

368 Filtration aids
Substances used to prevent clogging of filters by removing particles that would otherwise not pass through the filter.

369 Curing agents (polymer technology)
Substances used to change the properties of polymers, especially thermosetting plastics or elastomers, usually by increasing the molecular weight (e.g., by crosslinking, condensation, or addition).

370 Liquid crystals
Organic compounds that exist in a transition state between solid and liquid forms and with physical properties (e.g., phase transition in a narrow temperature range) that are often utilized for display purposes.

371 Surface coating additives
A general term for substances added to protective or surface coatings such as paints, lacquers, and varnishes, to aid in the compounding or to improve the qualities of the coating (e.g., spreadability, drying, mar resistance, color).

372 Embalming agents
Substances used for the preservation of dead bodies, usually human.

373 Extraction agents
Substances used to dissolve and facilitate the separation of, usually from mixtures, desired components or unwanted impurities.

374 Reagents
A general term for substances used in detection or analysis of other substances, or in chemical reactions for preparing or modifying other substances.

375 Materials for shaping
A general term for substances, e.g., metals, waxes or glasses, that can be shaped by a forming process such as molding, blowing, extruding, rolling, drawing, or cutting.

376 Alloying agents
Substances incorporated into metals, usually by fusing, to form intimate mixtures having improved properties.

377 X-ray absorbents
Substances used to block or attenuate X-rays, e.g., for shielding or medical diagnosis.

378 Photovoltaic agents
Substances that generate electromotive force (voltage) upon the incidence of radiant energy (e.g., solar cells).

379 Magnetic agents
Substances used for their magnetic or magnetizable properties, e.g., in transformer cores or on magnetic tape.

380 Incandescent agents
Substances that are used to emit light at high temperatures; e.g., light bulb filaments.

381 Luminescent agents

A general term for substances that emit visible or invisible radiation upon absorption of energy in the form of photons, charged particles, or chemical change.

382 Osmotic membranes

Substances commonly used in thin sections, e.g., sheets or hollow fibers, for selective permeation of ions or molecules.

383 Electrode materials

Substances that are used in conductive circuits as components (e.g., terminals or plates of batteries, electrolytic cells, or arc welding equipment) that establish contact with a nonmetallic part of the circuit.

998 Function unknown

Substances whose function is not known. The actual function may or may not be included in the ChemUSES function list.

999 Functions not found

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